

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 19 Port of 15 AUG 1941  
 No. in Survey held at Reg. Book. Date, First Survey 30.9.40 Last Survey 7.6.1941  
 on the Steam Trawler **FLOTTA** (Number of Visits 45)  
 Built at SELBY By whom built Messrs. Colvane & Sons Yard No. 1227. When built 1941-6  
 Engines made at HULL By whom made Messrs. Chas. D. Holmes & Co. Engine No. 1574. When made 1941-6  
 Boilers made at HULL By whom made Messrs. Chas. D. Holmes & Co. Boiler No. 1576. When made 1941-6  
 Registered Horse Power Owners THE ADMIRALTY. Port belonging to  
 Nom. Horse Power as per Rule 156. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted  
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines **TRIPLE EXPANSION**. CONTRACT Revs. per minute 160.  
 Dia. of Cylinders 13½", 23", 38" Length of Stroke 27" No. of Cylinders 3. No. of Cranks 3.  
 Crank shaft, dia. of journals as per Rule 7.5" as fitted 7¾" Crank pin dia. 7¾" Crank webs Mid. length breadth 2-10" Mid. length thickness 1-10" Thickness parallel to axis 4 13/16" Thickness around eye-hole 3 15/16"  
 Intermediate Shafts, diameter as per Rule 7.15" as fitted 7¼" Thrust shaft, diameter at collars as per Rule 7.5" as fitted 7¾"  
 Tube Shafts, diameter as per Rule 8.2" as fitted 8½" Is the shaft fitted with a continuous liner { No.  
 Screw Shaft, diameter as per Rule 8.2" as fitted 8½"  
 Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the propeller boss  
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner  
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive  
 If two liners are fitted, is the shaft lapped or protected between the liners  
 Is an approved Oil Gland or other appliance fitted at the after end of the tube  
 Length of Bearing in Stern Bush next to and supporting propeller 36½"  
 Propeller, dia. 105" Pitch 9-4" No. of Blades 3. Material C.I. whether Moveable Solid. Total Developed Surface 30 sq. feet  
 Feed Pumps worked from the Main Engines, No. 2. Diameter 2½" Stroke 15" Can one be overhauled while the other is at work  
 Bilge Pumps worked from the Main Engines, No. 2. Diameter 2½" Stroke 15" Can one be overhauled while the other is at work  
 Feed Pumps { No. and size One 4" x 6" x 12" Weirs. Pumps connected to the Main Bilge Line { No. and size One 6" x 5½" x 15" Weirs.  
 How driven Independent Steam How driven Independent Steam ALSO DOWNTON.  
 Ballast Pumps, No. and size None Lubricating Oil Pumps, including Spare Pump, No. and size None  
 Are two independent means arranged for circulating water through the Oil Cooler None  
 Bilge Pumps;—In Engine and Boiler Room Eng. Rm. 2 @ 2" Dia one @ 3½" Dia 8" Stroke 2 @ 2" Dia  
 In Pump Room None In Holds, &c. One @ 2" Dia in each of the following:—Fore peak, Chain Locker, ASDIC Space, Magazine, Spirit Room, Dunker, Shaft Space & After peak  
 Main Water Circulating Pump Direct Bilge Suctions, No. and size one @ 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One @ 3½" (includes above)  
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges  
 Are all Sea Connections fitted direct on the skin of the ship  
 Are they fitted with Valves or Cocks  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates  
 Are the Overboard Discharges above or below the deep water line  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel  
 Are the Blow Off Cocks fitted with a spigot and brass covering plate  
 What Pipes pass through the bunkers Feed tank suction How are they protected Word Casing  
 What pipes pass through the deep tanks None Have they been tested as per Rule  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times  
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another  
 Is the Shaft <sup>SPACE</sup> ~~tunnel~~ watertight  
 Is it fitted with a watertight door No. Access from Flat above.

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2650  
 Which Boilers are fitted with Forced Draft All Which Boilers are fitted with Superheaters None  
 No. and Description of Boilers One S.B. Working Pressure 200 lb./sq. in.  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.  
 IS A DONKEY BOILER FITTED? No  
 Can the donkey boiler be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting 17-7-39. Main Boilers 17-7-39 Auxiliary Boilers None Donkey Boilers None  
 (If not state date of approval)  
 Superheaters None General Pumping Arrangements 17-10-39 Oil fuel Burning Piping Arrangements None

SPARE GEAR.  
 Has the spare gear required by the Rules been supplied Yes.  
 State the principal additional spare gear supplied See attached list.



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1940. 1941  
During progress of work in shops - - - Sep. 30. Oct. 9. Nov. 26, 27, 29. Dec. 10, 23, 27, 28, 31. - Jan. 8, 25, 28. Feb. 3, 7, 17, 24, 25, 28. Mar. 5, 4, 5, 6, 7, 12, 14, 21, 28.  
Dates of Survey while building - - - Apr. 3, 5, 24. May. 6, 12, 16, 20, 23, 26, 28, 29, 31. June 3, 4, 5, 6, 7.  
During erection on board vessel - - -  
Total No. of visits 58 1/2  
Dates of Examination of principal parts - Cylinders 24/2/41. Slides 24/2/41. Covers 24/2/41. 24/2/41. 24/2/41.  
Pistons 24/2/41. Piston Rods 24/2/41. Connecting rods 24/2/41.  
Crank shaft 17-2-41. Thrust shaft 23/12/40. Intermediate shafts 29/1/41. 17/2/41.  
Tube shaft ✓. Screw shaft 3-2-41. Propeller 24-4-41.  
Stern tube 7/2/41. Engine and boiler seatings 31-12-40. Engines holding down bolts 6-4-41.  
Completion of fitting sea connections 24-4-41.  
Completion of pumping arrangements 28-5-41. Boilers fixed 6-4-41. Engines tried under steam 4-6-41.  
Main boiler safety valves adjusted 28-5-41. Thickness of adjusting washers 5/16 P. 13/32 S.  
Crank shaft material M.S. coupling 999 LT. 27/1/41. Identification Mark 606 LT. Thrust shaft material M.S. Identification Mark 564 LT.  
Intermediate shafts, material M.S. Identification Marks 4062, 4063. Tube shaft, material ✓ Identification Mark ✓  
Screw shaft, material M.S. Identification Mark 581 E.P.L.T. Steam Pipes, material Steel. Test pressure 600 lb. Date of Test 12/5/41.  
Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150°F. ✓  
Have the requirements of the Rules for the use of oil as fuel been complied with ✓  
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No. If so, have the requirements of the Rules been complied with ✓  
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with No.  
Is this machinery duplicate of a previous case No. If so, state name of vessel H.M.T. BIRCH.  
General Remarks (State quality of workmanship, opinions as to class, &c.)

The Machinery of this Vessel has been constructed & fitted on board in accordance with approved Admiralty plan, the Specification, & the Society's Rule. The workmanship and materials are good and when tried out at a sea full power as practicable in the basin it was found satisfactory in every respect. The Vessel is eligible in our opinion, when closed, to have the records of \* LMC 6.41 and O.G. 6.41 and the notation T. 3 Cy. 13 1/2", 23, 38, 27, 156 M.H.P. 200 H.P. 15 B. 3 Cy. G.S. 63. H.B. 2650 F.D.

The amount of Entry Fee ... £ : : When applied for,  
Special ... £ 75 : - : 14.8. 1941  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) £ : : 19

J. Milner  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned  
TUE. 19 AUG 1941  
f. Lumb. 6.41  
22.09